



# AntMiner D3 Installation Guide

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## 1. Overview

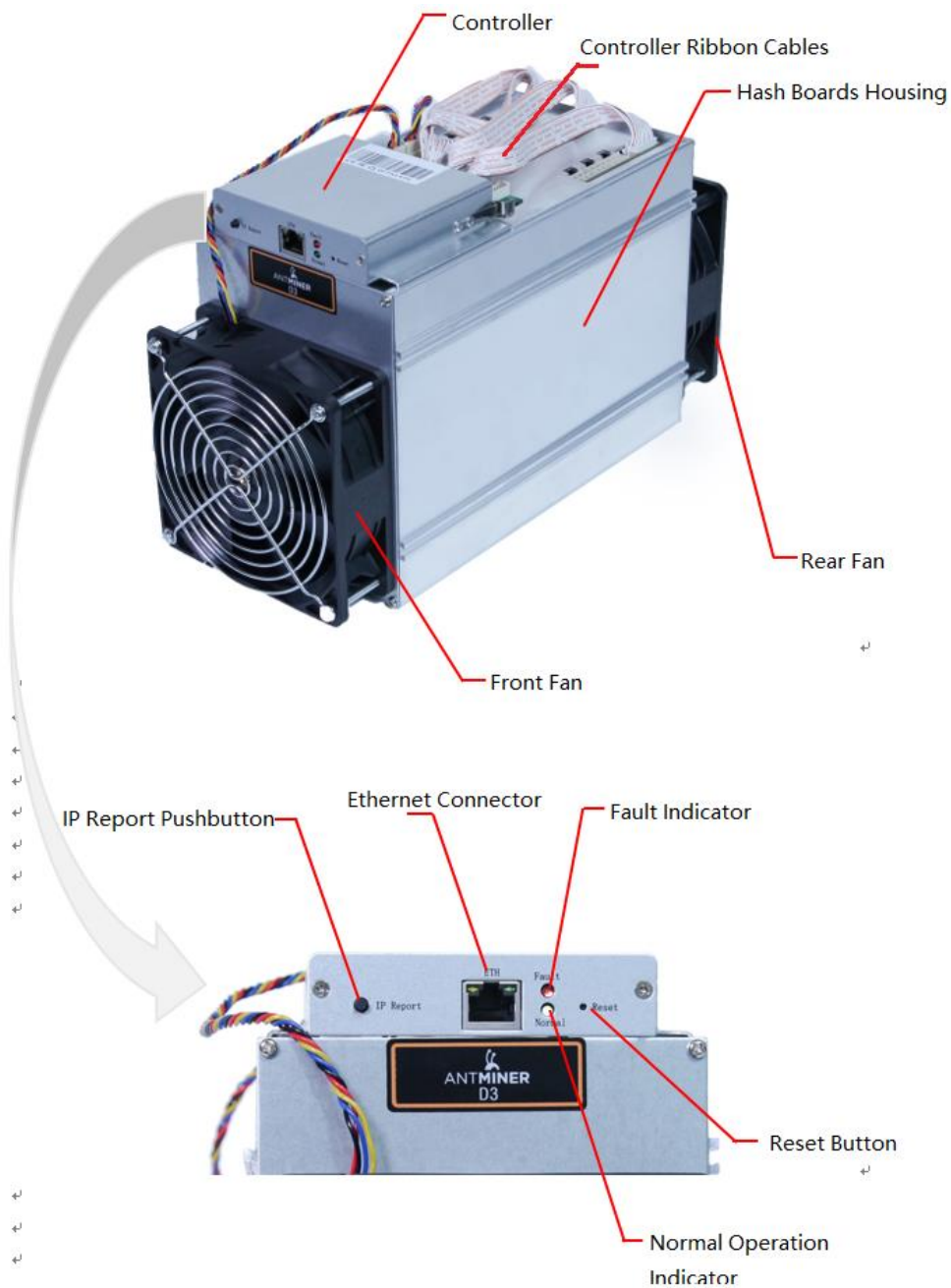
The AntMiner D3 is Bitmain's newest version in the AntMiner D3 series. It boasts a state-of-the-art BM1760 custom-made chip using 28nm technology. All AntMiners D3 are tested and configured prior to shipping to ensure easy set up.



Power supply unit is **not included**. Please provide your own ATX power supply.

### 1.1 AntMiner D3 Components

The AntMiner D3 main components and controller front panel are shown in the following figure:



## 1.2 Specification

Hash Rate	17 GH/s±5%
Rated voltage	11.60 ~ 13.00V
Frequency	487M
Estimated wall outlet power consumption (with APW3, 93% efficiency, 25°C ambient temperature)	970W + 7%
Estimated wall outlet power efficiency (with APW3, 93% efficiency, 25°C ambient temperature)	57mJ/MH + 7%
Dimensions (L x W x H)	320mm*130mm*190mm
Net weight without packaging	4.2kg
Operating ambient temperature	0 ~ 40°C



The miner does not contain a DC/DC converter; therefore, higher input voltage will cause higher Mining efficiency.

## 2. Connecting the Power Supply

Ten PCI-e connectors are located at the top of the AntMiner D3 for connecting the PSU as follows:

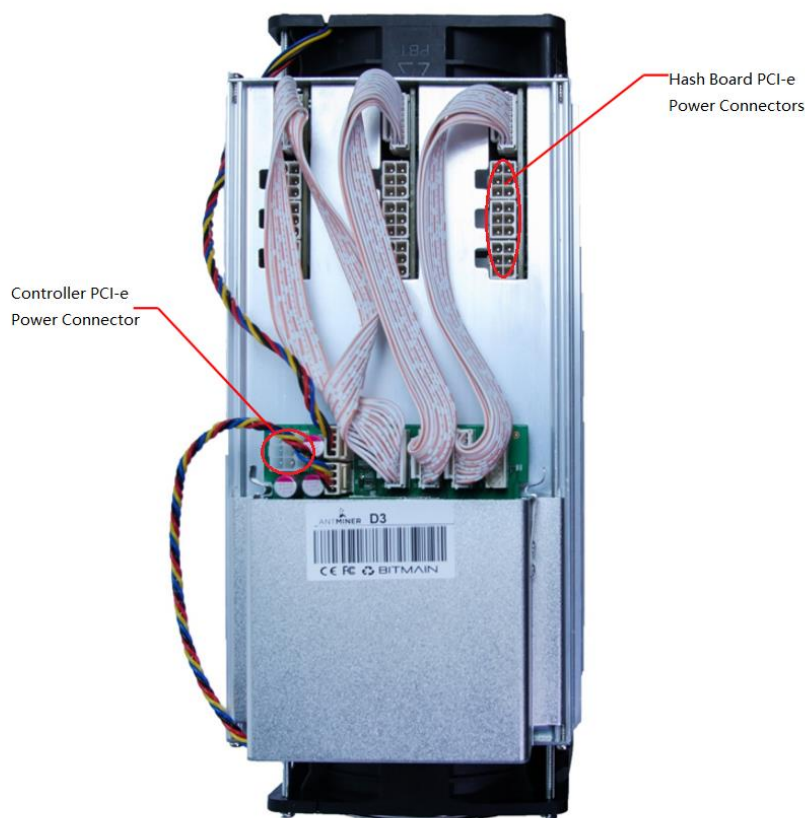
- Nine PCI-e connectors for the hash boards. Each hash board has a set of three PCI-e connectors.
- One PCI-e connector located on the controller.



Each hashboard must be powered by the same PSU on both connectors to prevent Possible damage and instability.

### To connect the power supply:

1. Connect PSU power cable connectors to each of the nine PCI-e connectors on the top of the AntMiner D3, ensuring that each hash board is powered by the same PSU.



2. Connect a PSU power cable connector to the AntMiner D3 PCI-e connector on the controller.
3. Connect the network cable to the ETH port. (WIFI is unavailable for AntMiners)
4. To power up your AntMiner D3, connect the PSUs to the power wall outlet.



If you are using more than one PSU, power up the PSU connected to the controller AFTER you have powered up the other PSU(s).

## 2. Connecting the Power Supply

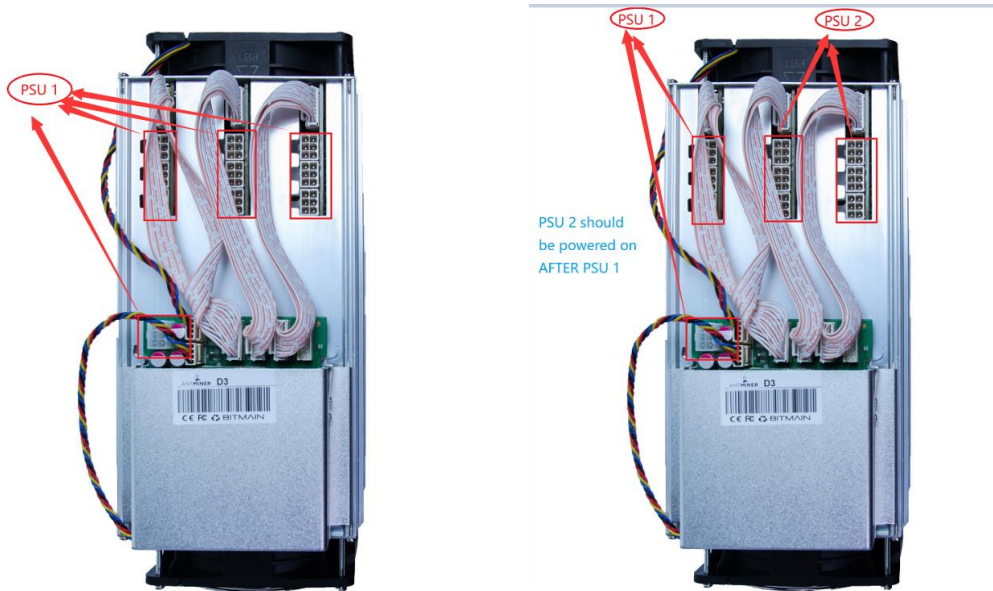


Figure 2-1. PCI-E Connectors - Correct Connection

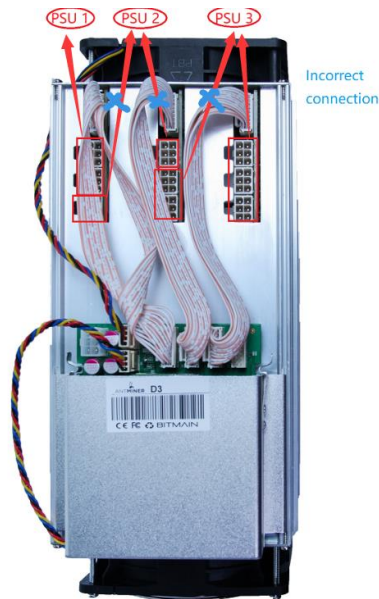


Figure 2-2. PCI-E Connectors - Incorrect Connection




3. Setting Up the Miner

### 3. Setting Up the Miner

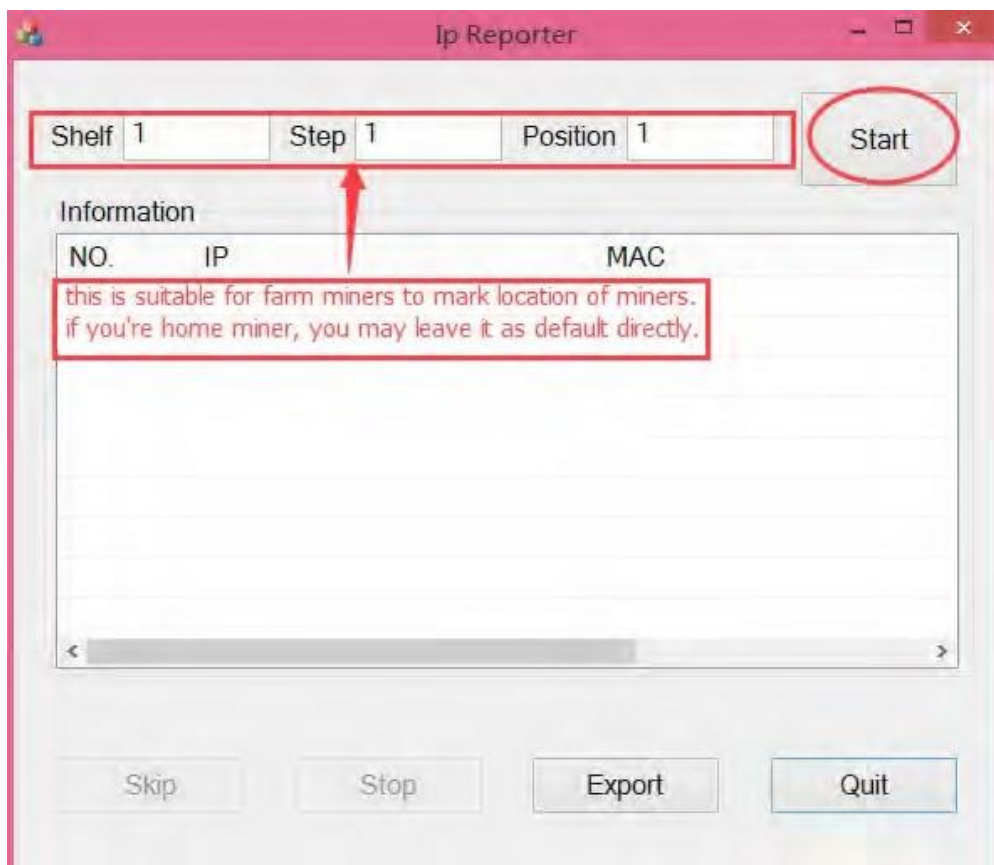
To set up the miner:

 The file IPReporter.zip is supported by Microsoft Windows only.

1. Go to the following site:  
<https://shop.bitmain.com/support.htm?pid=00720160906053730999PVD2K0vz0693>
2. Download the file: IPReporter.zip
3. Extract the file.

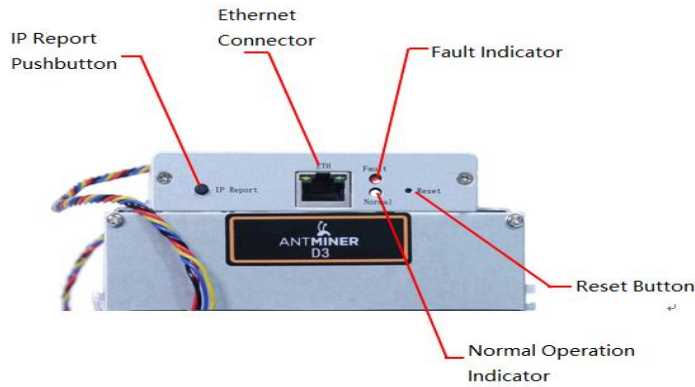
 The default DHCP network protocol distributes IP addresses automatically.

4. Right-click **IPReporter.exe** and run it as Administrator.
5. Select one of the following options:
  - Shelf, Step, Position – suitable for farm miners to mark the location of the miners.
  - Default – suitable for home miners.
6. Click **Start**.

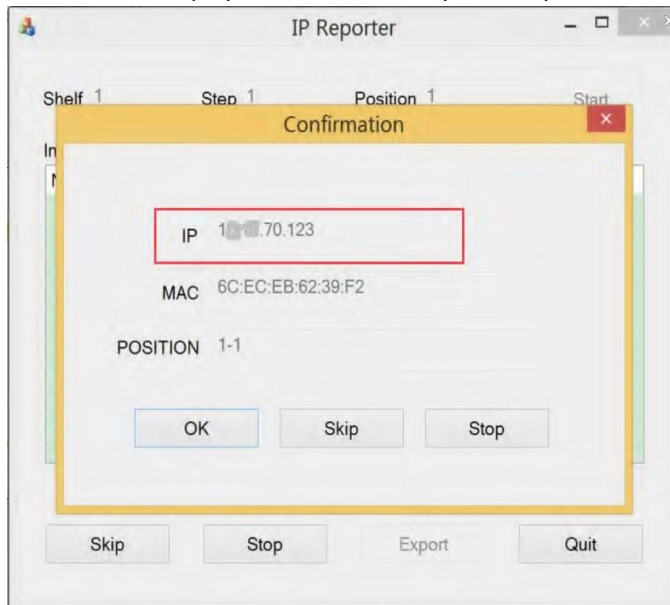


### 3. Setting Up the Miner

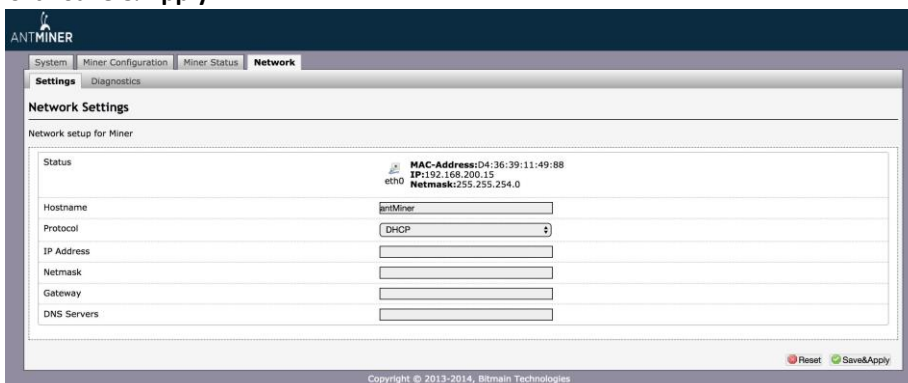
- On the controller board, click the IP Report button. Hold it down until it beeps (about 5 seconds).



The IP address will be displayed in a window on your computer screen.



- In your web browser, enter the IP address provided.
- Proceed to login using `root` for both the username and password.
- In the Network section, you can assign a Static IP address (optional).
- Click **Save & Apply**.




4. Configuring the Miner

## 4. Configuring the Miner

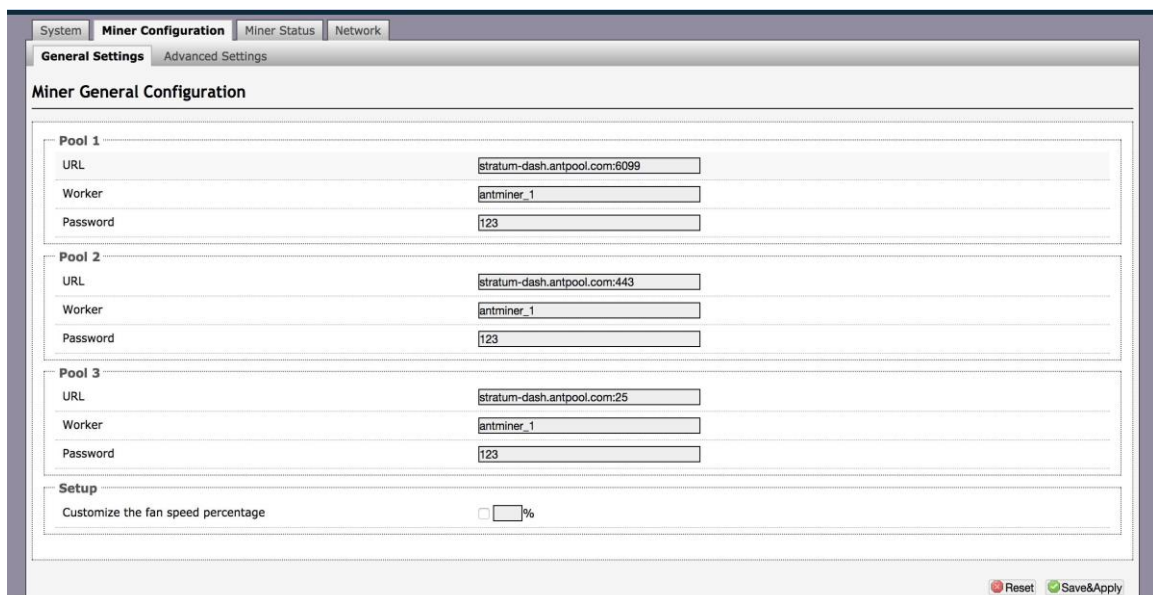
### 4.1 Setting Up the Pool

To configure the miner:

1. In Miner Configuration, click **General Settings**.
2. Set the options according to the following table:

Option	Description
Pool URL	Enter the URL of your desired pool. <div style="border: 1px solid black; padding: 10px; margin-top: 10px;">  <p>The AntMiner D3 can be set up with three mining pools, with decreasing priority from the first pool (pool 1) to the third pool (pool 3). The pools with low priority will only be used if all higher priority pools are offline.</p> </div>
Worker	Your worker ID on the selected pool.
Password	The password for your selected worker.

3. Click **Save & Apply**.



## 4.2 Modifying the Frequency

You are able to modify the frequency value through 'Miner Configuration —>Advanced Settings'.



Bitmain recommend a default frequency of AntMiner D3, and Overlocking the miner will void the warranty immediately.



## 5. Monitoring Your Miner

To check the operating status of your miner:

1. Click **Miner Status**.
2. Under AntMiner, monitor your miner according to the descriptions in the following table:

Option	Description
ASIC#	Number of chips detected in the chain.
Frequency	ASIC frequency setting.
GH/S(RT)	Hash rate of each hash board ( GH/s)
Temp(PCB)	Temperature of each hash board (°C).(Applied only to miner with fixed frequency)
Temp(Chip)	Temperature of the chips on each hash board (°C).
ASIC status	One of the following statuses will appear: <ul style="list-style-type: none"> <li>● ○ - indicates OK</li> <li>● X - indicates error</li> <li>● - - indicates dead</li> </ul>

System   Miner Configuration   <b>Miner Status</b>   Network																
<b>Miner Status</b>																
Summary																
Elapsed	MH/S(RT)	MH/S(avg)	FoundBlocks	LocalWork	Utility	WU	BestShare									
32m42s	17,106.6	17,462.53	0	10,601	5.78	225.03	449552									
Pools																
Pool	URL	User	Status	Diff	GetWorks	Priority	Accepted	Nonce#	DiffA#	DiffR#	DiffS#	Rejected	Discarded	Stale	LSDiff	LSTime
0	stratum+tcp://stratum-dash.antpool.com:6099	Avery1989_01	Alive	32,0000	50	0	189	63,852	7,360	0	0	0	1,070	0	32	0:00:13
1	stratum+tcp://stratum-dash.antpool.com:443	Avery1989_01	Alive	64,0000	3	1	0	0	0	0	0	0	0	0	0	Never
2	stratum+tcp://stratum-dash.antpool.com:25	antminer_1	Dead	0,0000	0	2	0	0	0	0	0	0	0	0	0	Never
total					53		189	63,852	7,360	0	0	0	1,070	0	0	
HW	4							0.0063%	0.0543%							
AntMiner																
Chain#	ASIC#	Frequency	MH/S(RT)	HW	Temp(PCB)	Temp(Chip)	ASIC status									
1	60	487	5680.34	0	56	69	oo									
2	60	487	5714.23	4	54	67	oo									
3	60	487	5712.02	0	57	71	oo									
Fan#				Fan1			Fan2									
Speed (r/min)				4,290			4,290									



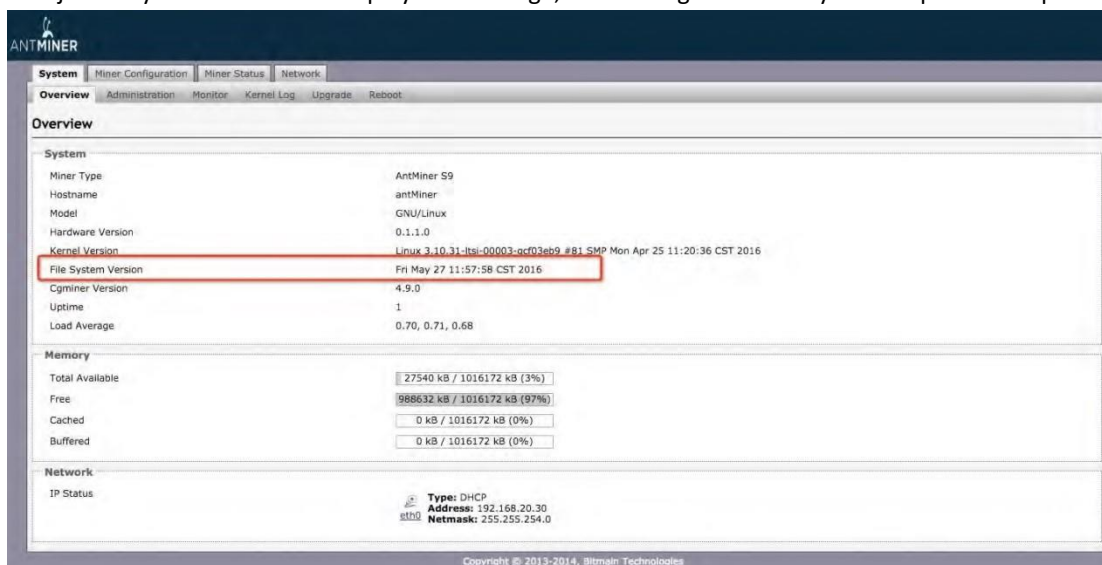
**Note:** The D3 miner will stop running when the Temp(PCB) exceeds to 85°C, there will be an error message “Fatal Error: Temperature is too high!” shown in the bottom of kernel log page.

## 6. Administering Your Miner

### 6.1 Checking Your Firmware Version

To check your firmware version:

1. In **System**, click the **Overview** tab.
2. **File System Version** displays the date of the firmware your miner use. (Screenshot below of S9 AntMiner just for your reference to display the message, the message shows on your computer shall prevail.



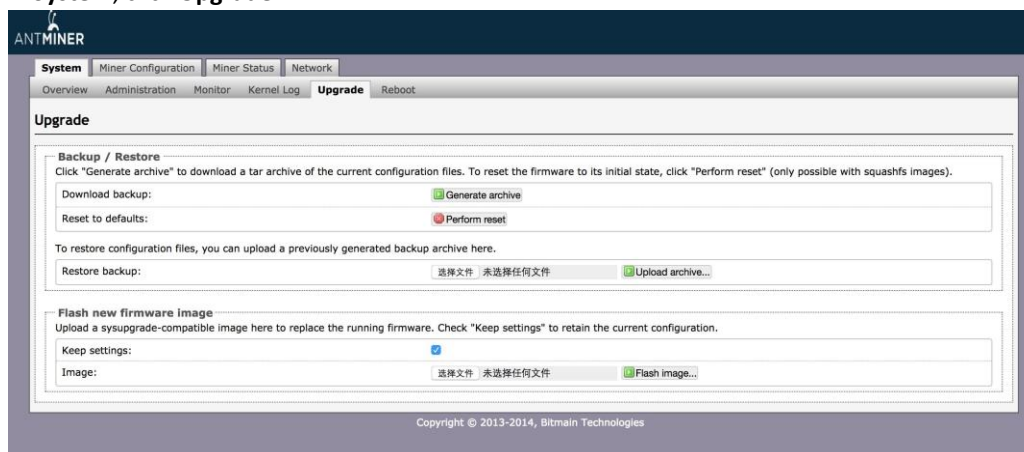
### 6.2 Upgrading Your System



Make sure that the AntMiner D3 remains powered during the upgrade process. If power fails before the upgrade is completed, you will need to return it to Bitmain for repair.

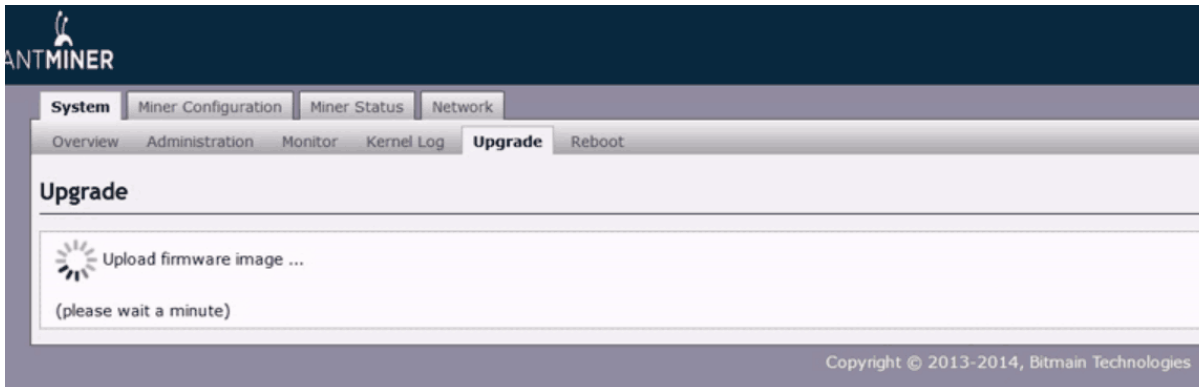
To upgrade the miner's firmware:

1. In **System**, click **Upgrade**.

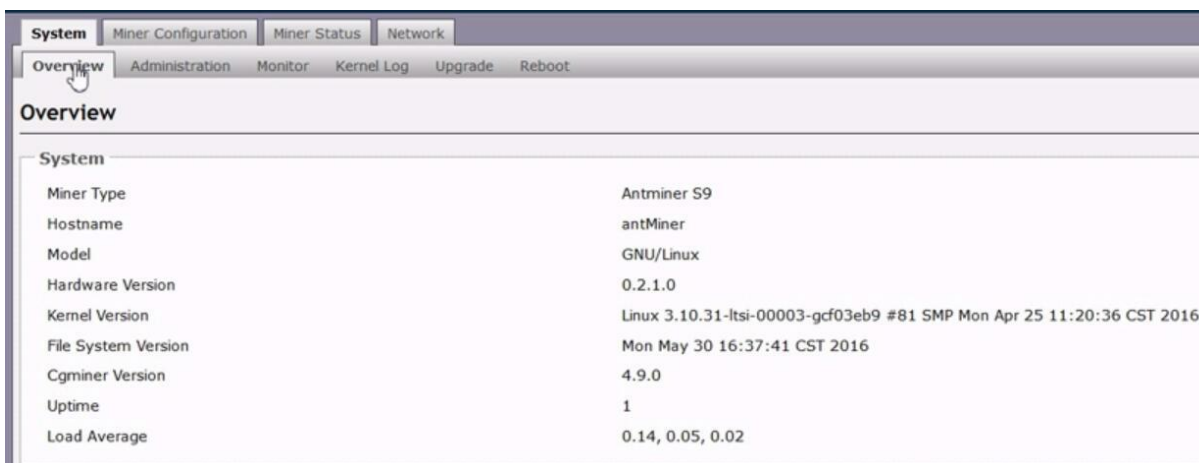


2. For **Keep Settings**:
  - Select the check box to keep your current settings (default).
  - Clear the check box to reset the miner to default settings.
3. Click the **选择文件 (Browse)** button and navigate to the upgrade file. Select the upgrade file, then click **Flash image**. A message appears notifying you if the AntMiner D3 firmware can be upgraded and if yes, will then

proceed to flash the image. (Note: Please do not extract the update file and keep the power on during updating firmware or otherwise the AntMiner need to be returned to the factory to repair. And around two minutes will be needed to complete updating.)



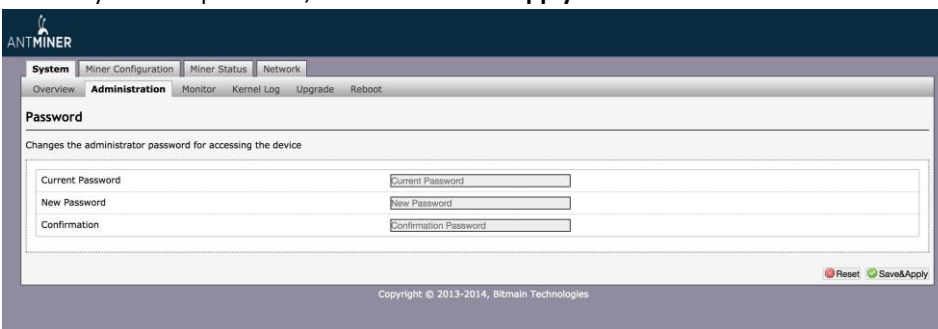
3. When the upgrade is completed successfully, the following message will appear: (Screenshot below of S9 AntMiner just for your reference to show the message, the message shows on your computer shall prevail.).



### 6.3 Modifying Your Password

To change your login password:

1. In **System**, click the **Administration** tab.
2. Set your new password, then click **Save & Apply**.



### 6.4 Restoring Initial Settings

To restore your initial settings, two methods below for your reference.

1. Turn on the miner and let it run for 5 minutes.

2. On the controller front panel, press and hold the **Reset** button for 10 seconds.



Resetting your miner will reboot it and restore its default settings. The red LED will automatically flash once every 15 seconds if the reset is operated successfully.